Amendments to the Claims

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This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (CURRENTLY AMENDED) An apparatus to prepare a biocompatible matrix from a matrix-forming fluid comprising

a chamber to contain a matrix-forming fluid, said chamber defined by at least a top planar <u>rigid metal</u> surface of a heat conductive material and a bottom planar <u>rigid metal</u> surface of a heat conductive material, said top and bottom surfaces effective to symmetrically remove heat from the said top surface and said bottom surface of said matrix-forming fluid in preparation of the biocompatible matrix,

at least one discontinuous gasket having a uniform thickness positioned between said top and bottom surfaces to define a perimeter of said chamber, said gasket capable of containing said matrix-forming fluid within said perimeter, and

a plurality of fasteners to fasten <u>said top surface with said bottom</u>

<u>surface said apparatus.</u>

- (ORIGINAL) The apparatus of claim 1 further comprising a container sized to contain a coolant fluid for immersion of said apparatus in said coolant fluid.
- 3. (ORIGINAL) The apparatus of claim 2 wherein said container is open.

4-32. (CANCELED)

33. (CURRENTLY AMENDED) An apparatus for casting a biologically compatible matrix, said apparatus comprising a metal chamber forming an open chamber with five joined surfaces and a separate sixth surface attachable to said open chamber to form a closed chamber containing a matrix-forming fluid for a biologically compatible matrix,

spacers to space the first and second top and bottom surfaces and thereby regulate a thickness of a matrix resulting from freezing of the matrix-forming fluid, the top and bottom surfaces defined by rigid metal sheets effective to symmetrically remove heat from said matrix-forming fluid, and

fasteners to effect a liquid-tight seal among at least the five joined surfaces.

34-39. (CANCELED)

40. (CURRENTLY AMENDED) An apparatus for controlled rate freezing of a matrix-forming fluid comprising a closed chamber defined by at least a top <u>rigid</u> metal surface [[and]], a bottom <u>rigid metal</u> surface of a heat conductive material and a discontinuous gasket, said chamber containing said fluid, said heat conductive material top and bottom surfaces symmetrically removing heat for controlled rate freezing of a matrix-forming fluid.

41. (CANCELED)

42. (PREVIOUSLY PRESENTED) The apparatus of claim 40 wherein the gasket is of substantially uniform thickness separating said top and bottom surfaces.

43-46. (CANCELED)